



EntelNet™ Wireless Module (Wi-Fi)

IS0369

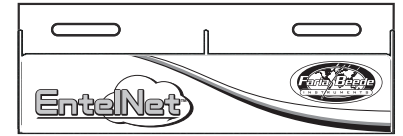
Rev. A ecn 10257 11/2015

The EntelNet™ service is a multi part system which combines the information received from the engine ECU (via CAN Bus [NMEA200 and SAE J-1939]), Analog (resistance, voltage, etc.) or Serial data (RS-232 for NMEA 0183, typical for GPS) and an over the air communications system, i.e. Wi-Fi, to provide remote monitoring of on-board systems.

The wireless model connects to the CAN Bus either directly or through the MG3000 and broadcasts the data to an internet ready device.

Part Number

SD0069	SD0062
SD0065	KTF068
SD0066	



Caution

Use stranded, insulated wire not lighter than 18 AWG. Be certain wire insulation is not in danger of melting from engine or exhaust heat or interfering with moving mechanical parts.

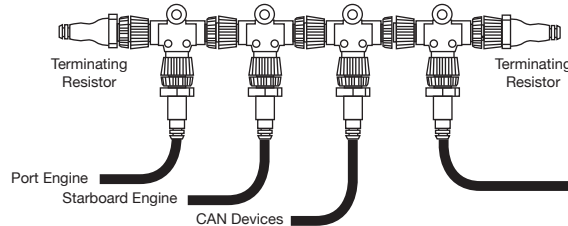
Parts

QTY	Description
1	Wireless Module

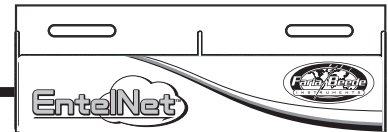
Installation

SD0065 KTF068 (Aftermarket Kit)

Direct connection to the NMEA2000 CAN bus using T-connectors

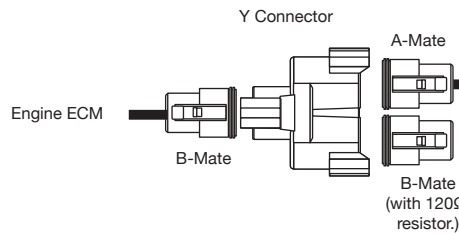


SD0065/KTF068 (Kit)

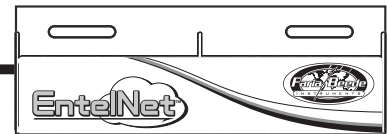


SD0066

Direct connection to the J1939 CAN bus using Duetsch-connectors



SD0066

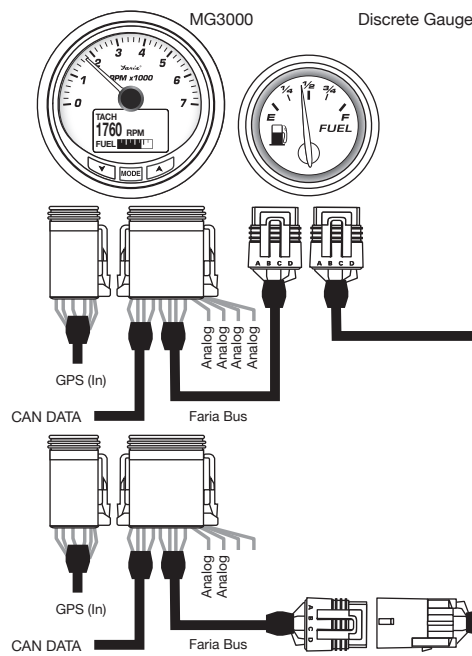


Flying Lead or customer custom connectors available.

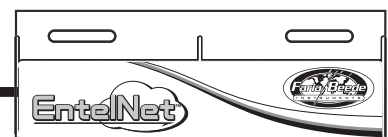
SD0062

SD0069

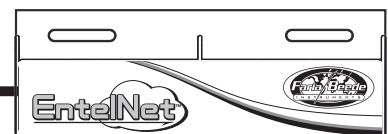
Connected to the Faria Bus via a 4-pin Packard connector connecting to the last gauge in the Faria Bus series. The MG3000 sends the data which is transmitted using the EntelNet wireless module.



SD0062



SD0069



Wire Diagram



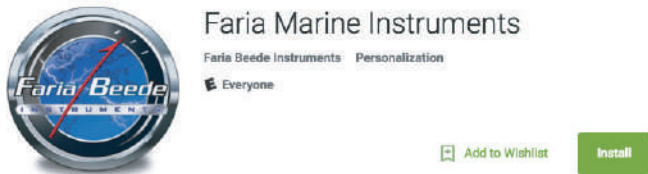
Operation - Android® Application

Getting the App

1) Launch the Google Play Store on your Android device.



2) Search for the Faria Beede application. There are several. Be sure to find the app for your application.



3) Click the INSTALL button

4) Complete the installation process.

Connecting the Android® device

Note: These instructions are written for the Android operating system.

With the EntelNet wireless module installed and power applied to the CAN Bus network the EntelNet should be working.

Connecting an internet capable device

- 1) Turn power on.
- 2) Be sure the EntelNet wireless module is connected to the CAN Bus network (see Installation for your application).

On the device;

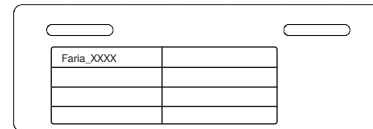
- 3) Turn on the Internet capable Android® device

(Tablet).

- 4) Select “Settings” on the device and ensure the Wi-Fi is connected to the EntelNet wireless module network.



The module will be identified as Faria_, with four alphanumeric digits. “**Faria_XXXX**” You can find this information on the back of the module. Use the password: **FARIA_2014_AB** to join the network. (Be sure to use all uppercase letters.)



Important

Be sure that the WiFi device, Faria_XXXX, says it is “Connected” before going to the next step.

- 5) Exit “Settings” by pressing the “Home” button.



Some tablets are equipped with a physical home button instead of an icon.

- 6) From the Home page start the app downloaded earlier.



- 7) The information will start to populate the fields letting you know the connection has been made. If you don't see any data check the connection to the CAN network or WiFi settings.

User Set-up

- 1) Press the User Set-Up button

- 2) Complete the information requested. This information will be sent to the technician when sending data.

User Data includes;

User E-mail: (usere-mail@domain.com)
User Phone: (XXX) XXX-XXXX
Hull ID: (XXX-XXXXX-XX-XX)
Technician Dealer E-mail: (teche-mail@domain.com)

- 3) Once the information is completed press “SOFT AP MODE” to begin using your application.

SOFT AP MODE

- 4) From the User Setup page, press the Return button to return to the gauge page.



Send Data

- 1) With the information being collected on the app, press the “SEND DATA” button.

SEND DATA

You will be asked if you want to send e-mail. If you choose to, you will be taken out of the application and the chosen e-mail program will be opened. Enter the address of the person you want to send the collected information and send e-mail.

You have now sent your engine data into the cloud.

Removing the device

If you want to connect to the Wi-Fi module with a different device, it is good a practice to disconnect from the Wi-Fi network.

From the Settings page on the Android device, in the Wi-Fi section select the Faria_XXXX network that you are connected to, and pressing the ‘Forget’ button.

Important

Be sure that the WiFi device, Faria_XXXX, is no longer connected.

Note

Be sure to disconnect from the EntelNet wireless module and reacquire the GSM or Wi-Fi signal to send your e-mail.

Why can't I send e-mail?

The EntelNet wireless module communicates with the tablet or device using Wi-Fi. While connected to the wireless module the device is directly tethered to the EntelNet module. This means that a communication channel has been established between the device and module over Wi-Fi and since the EntelNet wireless module does not have internet capabilities the message has no where to go.

Most devices default to the Wi-Fi connection when sending e-mail. This helps the operator save money by reducing the number of data minutes charged for continuous cellular connections.

To send e-mail while connected to the EntelNet wireless module you must first break the connection to the Wi-Fi module by either turning off Wi-Fi or disconnecting from the Wi-Fi module in Settings.

Once the e-mail has been sent the operator can reacquire the Wi-Fi module and continue monitoring the CAN network.

Operation - Web App

With the EntelNet wireless module installed and power is applied to the CAN Bus network the EntelNet is working.

Connecting an internet capable device

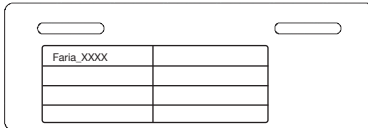
Important

These instructions are written for the Android® operating system, however the methods are the same for any device.

- 1) Turn power on.
- 2) Be sure the EntelNet wireless module is connected to the CAN Bus network (see Installation for your application).
- 3) Turn on the Internet capable device (Tablet).
- 4) Select “Settings” on the tablet and ensure the Wi-Fi is connected to the EntelNet wireless module network.



The module will be identified as Faria_, with four alphanumeric digits. “Faria_XXXX” You can find this information on the back of the module. Use the password: **FARIA_2014_AB** to join the network. (Be sure to use all uppercase letters.)



Important

Be sure that the WiFi device, Faria_XXXX, says it is “Connected” before going to the next step.

- 5) Exit “Settings” by pressing the “Home” button.



Some tablets are equipped with a physical home button instead of an icon.

- 6) Open your Internet Browser.



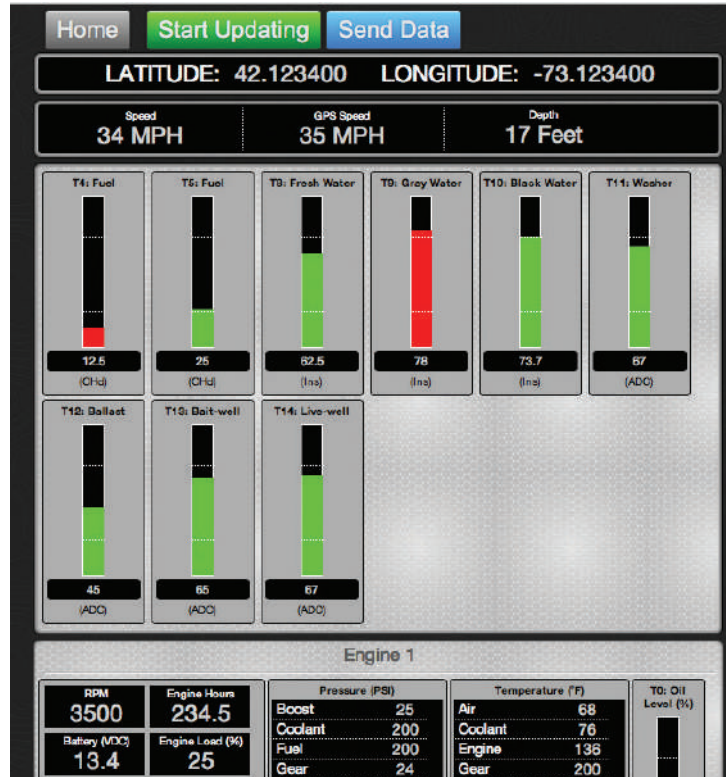
Internet Browser

- 7) Open a browser window and type in the address **192.168.1.3** in the address bar of the browser.

- 8) At the top of the page find a green button named “Start Updating”.

Press the “Start Updating” button.

The information will start to populate the fields letting you know the connection has been made. If you don't see any data check the connection to the CAN network or WiFi settings.



- 9) Send data. With the information being collected on the web page press the Blue “Send Data” button. You will be asked if you want to send e-mail. If you choose to, you will be taken out of the browser and the e-mail program will be opened. Enter the address of the person you want to send the collected information and send e-mail.

Be sure to disconnect from the EntelNet wireless module and reacquire the GSM or Wi-Fi signal to have your mail sent. See note “**Why can't I send e-mail?**”

- 10) Now if you want to connect to the module with a different device, you will need to disconnect from the Wi-Fi network. Do this by selecting the Faria_XXXX network that you are connected to, and pressing the ‘Forget’ button.